



PubMed Nucleotide Protein Genomic Structure PopSet Taxonomy OMIM
 Search **PubMed** for Limits Preview/Index History Clipboard

[About Entrez](#)

Entrez PubMed
 Overview
 Help | FAQ
 New/Noteworthy

PubMed Services
 Journal Browser
 MeSH Browser
 Single Citation Matcher
 Batch Citation Matcher
 Clinical Queries
 Cubby NEW

Related Resources
 Order Documents
 Grateful Med
 Consumer Health
 Clinical Alerts
 ClinicalTrials.gov

Privacy Policy

1: *Am J Public Health* 1989 Oct;79(10):1381-4 [Related Articles, Books, LinkOut](#)

Elevated blood levels of carcinogens in passive smokers.

MacLure M, Katz RB, Bryant MS, Skipper PL, Tannenbaum SR

Department of Epidemiology, Harvard School of Public Health, Boston, MA.

The hypothesis that involuntary exposure to tobacco smoke--passive smoking-- results in greater risk of cancer was assessed by measuring the levels of two known carcinogens in the blood of 57 nonsmokers with varying degrees of involuntary exposure, including six heavily exposed bartenders. The concentrations of hemoglobin adducts of 4-aminobiphenyl, a bladder carcinogen, were significantly higher in subjects with confirmed involuntary exposure (plasma cotinine concentrations between 2 and 23 ng/ml) compared with subjects with undetectable levels of cotinine. Similarly, adducts of 3-aminobiphenyl were significantly elevated in subjects with confirmed exposure. The odds of 3-aminobiphenyl adduct levels exceeding 2 pg/g of hemoglobin were 6:7 among the confirmed exposed, compared with the odds of 2:42 among subjects with undetectable cotinine (odds ratio = 18; 95 percent confidence interval = 3.3, 94). The validity of the assay was demonstrated by showing striking declines in adduct levels among quitting smokers.

Comments:

- Comment in: *Am J Public Health* 1990 Aug;80(8):1002-3

PMID: 2782507, UI: 89390781

Abstract

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Freedom of Information Act](#) | [Disclaimer](#)

<INPUT name=WebEnv type=hidden value=H>jZW?>\Gh?I>KDweA=_egr='jek@FA=?<Cb
 {b=JK^<Uc=Kh<@>